the positions of the hat joiner A7 and of the surface of the building boards B7 are different from those in the construction structure of wall surface illustrated in FIGS. **1** and **2**. In the construction structure of wall surface illustrated in FIG. **10**, the height of the top section of the surface of the design portion a**71** of the hat joiner A7 is identical to the height of the top section of the projections b**71** of the building boards B7, B7. As a result, the joining portion between the building boards B7, B7 is hardly noticeable also in the construction structure of wall surface illustrated in FIG. **10**. In this construction structure of wall surface as well, the horizontal width of the projections b**71** is the same as the horizontal width of the design portion a**71** of the hat joiner A7. Therefore, the mutual joints cannot be readily distinguished, and the joining portion between building boards **37**, B7 is inconspicuous. Since no sealing material is present at the joining portion between the building boards B7, B7, there occurs no deterioration of the sealing material over time. This renders unnecessary repairs or renewal.

FIG. **11** is a diagram of yet another embodiment of the construction structure of wall surface according to the present invention, viewed from above.

The construction structure of wall surface illustrated in FIG. **11** comprises a hat joiner A**8** and building boards B**8**. The hat joiner A**8** comprises a design portion a**81**, connecting portions a**82** and fixing plate portions a**83**, but differs from the hat joiner A**1** of FIG. **3** in that the design portion a**81** has an oblique portion at the left and right ends. The building boards B**8** are also different from the building boards B**1** of FIGS. **1** and **2** in that now the design portion is formed by projections b**81**. The projections b**81** are provided as a plurality thereof in the surface of the building boards B**8**, so as to traverse vertically the board up and down. The horizontal width of the projections b**81** is the same as the horizontal width of the design portion a**81** of the hat joiner A**8**. Like the design portion a**81**, the projections b**81** have each an oblique portion at the left and right ends. In the construction structure of wall surface illustrated in FIG. **11**, the positions of the surface of the building boards B**8** and of the hat joiner A**8** are different from those in the construction structure of wall surface illustrated in FIGS. **1** and **2**. In the construction structure of wall surface illustrated in FIG. **11**, the height of the top section of the surface of the design portion a**81** of the hat joiner A**8** is identical to the height of the top section of the projections b**81** of the building boards B**8**, B**8**. As a result, the joining portion between the building boards B**8**, B**8** is hardly noticeable also in the construction structure of wall surface illustrated in FIG. **11**. In this construction structure of wall surface as well, the horizontal width of the projections b**81** is the same as the horizontal width of the design portion a**81** of the hat joiner A**8**. Therefore, the mutual joints cannot be readily distinguished, and the joining portion between building boards B**8**, B**8** is inconspicuous. Since no sealing material is present at the joining portion between the building boards B**8**, B**8**, there occurs no deterioration of the sealing material over time. This renders unnecessary repairs or renewal.

Embodiments of the present invention have been explained above, but the present invention is not limited thereto, and can accommodate various modifications without departing from the scope of the invention as set forth in the appended claims. For instance, in FIGS. **1** to **11**, the joint by the design portion of the hat joiner, as well as and the design portions on the surface of the building boards, are all provided in the form of vertical joints, but may also be provided in the form of horizontal joints

As described above, the present invention allows providing a construction structure of wall surface having no sealing material and in which joining portions between building boards are inconspicuous.

What is claimed is:

1. A construction structure of wall surface, comprising:

a hat joiner having a fixing plate portion and a top surface portion; and

a plurality of building boards each having a design portion extending linearly on a front surface, wherein

the hat joiner is disposed between the building boards so that the building boards abut the hat joiner,

the building boards and the hat joiner are disposed so that i) the design portion extending linearly on the front surface of the building boards is parallel to a direction in which the top surface portion of the hat joiner extends and ii) the top surface portion of the hat joiner constitutes an external appearance of the construction structure in combination with the front surface of the building boards,

a width of the top surface portion of the hat joiner is a same as a width of each said design portion extending linearly on the front surface of each of the building boards,

each said building board has projection portions and recess portions on the front surface, at least one projection portion being located at an end portion of the building boards,

the projection portions or the recess portions form the design portion extending linearly on the front surface of each said building board,

an upper corner of each of the projection portions of the building boards is chamfered so that each chamfered corner of the projection portion has an identical shape and the building boards have a chamfered end at the end portion,

each of the recess portions forms the design portion of the building boards, and

the building boards and the hat joiner are disposed so that i) the chamfered end of the building boards abut the hat joiner, ii) the recess portions forming the design portion of the building boards extend linearly and parallel to the direction in which the top surface portion of the hat joiner extends, and iii) the top surface portion of the hat joiner and the chamfered ends of the building boards in combination forms a same shape as the recess portion of the building boards, and

the construction structure of wall surface does not have a sealing material.

2. The construction structure of wall surface, according to claim **1**, wherein the top surface portion of the hat joiner and the design portion extending linearly on the front surface of the building board have a same color.

3. The construction structure of wall surface according to claim **1** or **2**, wherein

the top surface portion of the hat joiner is disposed higher than the front surfaces of adjacent said building boards.

4. The construction structure of wall surface according to claim **1** or **2**, wherein

the top surface portion of the hat joiner is disposed lower than the front surfaces of adjacent said building boards.

5. The construction structure of wall surface according to claim **1** or **2**, wherein

the top surface portion of the hat joiner is disposed flush at a same height as the front surfaces of adjacent said building boards.

6. The construction structure of wall surface according to claim **1** or **2**,